

MATH 141, FALL 2010

Some more integrals to practice (use trigonometric substitutions):

$$\int \frac{1}{(1-x^2)^{3/2}} dx$$

$$\int \frac{x^2}{\sqrt{x^2-2}} dx$$

$$\int \sqrt{1-x^2} dx$$

$$\int \frac{1}{(x^2+a^2)^{3/2}} dx$$

$$\int \sqrt{\frac{a+x}{a-x}} dx$$

$$\int x \sqrt{\frac{x}{2a-x}} dx$$

$$\int \frac{1}{\sqrt{(x-a)(x-b)}} dx$$

$$\int \sqrt{(x-a)(x-b)} dx$$